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⑭ 発明の名称 無機塗料の製造方法

⑮ 特 願 昭63-244550

⑯ 出 願 昭63(1988)9月30日

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1/3 (1/1 WPI) - (C) WPI / DERWENT

AN - 1990-145172 [25]

AP - JP19880244550 19880930

PR - JP19880244550 19880930

TI - Inorganic paint prepn. - has aq. binder with e.g. sodium silicate, hardener e.g. acidic aluminium and zinc phosphate(s), and chromic oxide pigments

IW - INORGANIC PAINT PREPARATION AQUEOUS BIND SODIUM SILICATE HARDEN ACIDIC ALUMINIUM ZINC PHOSPHATE CHROMIC OXIDE PIGMENT

PA - (ASKA-N) ASK KK

PN - JP2092965 A 19900403 DW199019 000pp

ORD - 1990-04-03

IC - C09D1/00

FS - CPI

DC - G02 L02 M13

AB - J02092965 The paint comprises (a) aq. binder contg. at least one of water soluble silicate, phosphoric acid and phosphate and (b) water base dispersion contg. a hardener which reacts with the aq. binder, is prepd. by mixing at least (b) kept frozen with (a) just before use.  
- In the compsn. each (a) and (b) pref. forms frozen particles and the necessary amt. of them is blendable at the use.  
- USE/ADVANTAGE - The paint compsn. can be stored for long time without change of the property, and before use by only melting gives a good film forming property.

- In an example, 50 wt.pts. sodium silicate 40% aq. soln. and 50 wt.pts. potassium silicate 20% aq. soln. were mixed, frozen at -5 deg.C. and milled to powder of up to 3 mesh passed. (a) 28 wt.pts. hardner obtd. by calcination of acidic aluminumphosphate and acidic zinc phosphate, 12 wt.pts. chromic oxide pigment, 8.5 wt.pts. silica sand, 1.5 wt.pts. dispersant and 50 wt.pts. water were mixed, frozen and milled to 3 mesh passed (b). After 12 months storage. 100 wt.pts. each (a) and (b) was mixed, molten at 10 deg.C. and airsprayed on a slate and calcinated at 300 deg.C. for 30 min. The coated slate showed a good adhesiveness as 25/25 of tape peel test, 4.5 of Morse hardness, water proof on 30 days dipping and stain proof for magic ink test. In storage at soln. state of both or one component, the mixt. before use

showed gellation or crack formation on the coated film. (6pp

Dwg.No.0/0)